WOP-2070V

7" WVGA Operator Panel with PM Designer 2.0 Software



Features

- Various LCD sizes (3.5", 5.7", 7", 8", 10.4", 12.1")
- Supports ARM9-based CPUs with 70~200MHz and 4~16M flash memory size
- Supports RTC, battery backup RAM, and Ethernet-based operator panels
- Supports runtime data downloads through Serial, Ethernet, USB
- Supports adjustable brightness controls via touch panel
- Reliable firmware for 24/7 operation
- Supports Windows XP/ Vista-based PM Designer 2.0 development tool
- Easy to switch one application to different LCD sizes in seconds
- · Supports vertical and horizontal application screen rotation
- Supports over 250 PLC industrial communication protocols
- Communicates with up to four types of devices
- · Panel mounting for machinery

Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WOP-2000 series which are designed with ARM9-based RISC CPU with 70~200MHz and 4~16MB flash memory size for application software. The WOP-2000 series also support a variety of LCD size from 3.5" to 12.1" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. PM Designer 2.0 is a software development kit which helps create application solutions for labor-saving, improved efficiency of manufacturing and easy control of every machine in the factory. The WOP-2000 series is bundled with PM Designer 2.0 offering an outstanding price performance ratio for various markets such as conventional operator panels, HMI + Low mini SCADA systems, and HMI + communication gateways.

Specifications

General

Certifications
 CE / FCC / BSMI / UL / CCC

Dimensions (WxHxD) 188 x 143.3 x 40 mm (7.4" x 5.64" x 1.57")
 Cut-out Dimensions 174.5 x 132.5 mm (6.87" x 5.21")

• Front Panel Thickness 6mm

Operating System HMI RTOS, PM Designer 2.0

Power Supply Voltage 24V_{DC} ±10%
 Power Consumption 25W
 Enclosure Housing Plastic
 Mounting Panel
 Weight (Net) 1 kg (2.2 lbs)

System Hardware

■ CPU RISC 32 bits, 200 MHz

Battery Backup Memory 128KB
 Flash Memory 16 MB
 Power-On LED Yes
 Communication LED No
 Front USB Access No

Communication Interface

COM1 RS-232/422/485 (DB9 Female)

• **COM2** RS-232/422/485 (DB9 Male & 5-Pin Plug Connector)

COM3 None
 Ethernet (RJ45) 10/100-BaseT
 I/Os USB Client

USB Client No USB Host Yes Micro-SD Slot No

LCD Display and Touchscreen

Display Type
 WVGA TFT LCD

Display Size 7"
 Max. Resolution 800 x 480
 Max. Colors 65,536 colors
 Luminance (cd/m²) 300
 Viewing Angle (H/V°) 140/130

Backlight Life
 Dimming
 Touchscreen
 LED, 20,000 hrs
 Adjustable by touch panel
 4 wire analog resistive

Environment

• Operating Temperature $0 \sim 50^\circ$ C $(32 \sim 122^\circ$ F) • Storage Temperature $-20 \sim 60^\circ$ C $(-4 \sim 140^\circ$ F)

Humidity
 10 ~ 95% RH @ 40° C, non-condensing

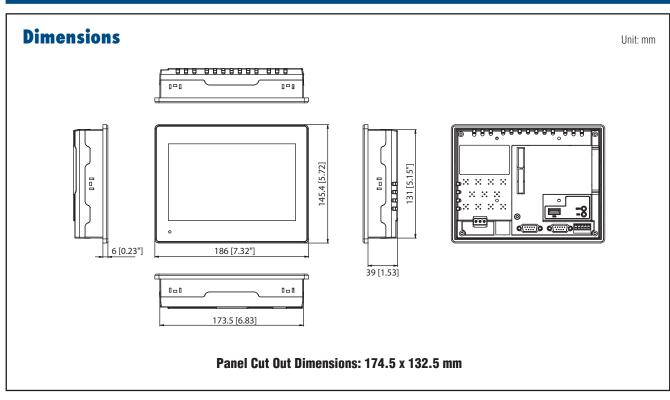
• Ingress Protection Front panel: NEMA4, IP65

Vibration Protection Operating, radom vibration 1 Grms (5 ~ 500 Hz)

Ordering Information

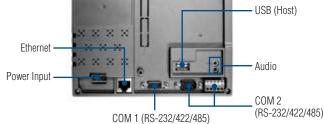
WOP-2070V-N4AE
 7" WVGA, 16 MB, RS-232/422/485, Ethernet

WOP-2070V

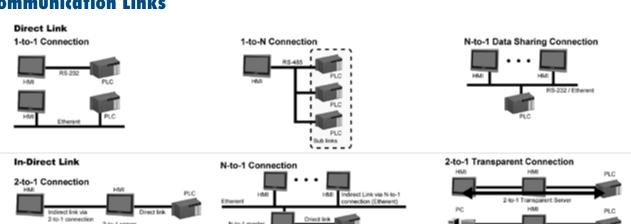


Rear View

USB (Host) Display Clear PM Designer 2.0



Communication Links



Operator Panels

Fanless Panel PCs

Panel Computers

Display Colutions

Ethornal Switzhoo

Ethernet Switches

Carial Comm. Cardo

Serial Comm. Cards

Video Surveillance

Pre-Configured Systems

110

IPC Chassis

SBCs and Backplanes

Industrial Motherboard

Embedded IPCs

Mohile Computers

IPC Peripherals

DAQ DAQ

DAQ
Signal Conditioning

LICE DAO

HMI Development Software Features